

Listing and Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for processing video data in a video data processing device for display on a display device having a plurality of luminous elements to suppress a dithering pattern caused by the movement of an object on the display device from appearing to a viewer observing ~~[[a]] the moving object on the display device~~, the moving object represented by said video data, the method comprising:

applying a dithering function to at least part of said video data in a dithering device of the video data processing device, wherein the dithering improves a grey scale portrayal of video pictures of said video data,

computing at least one motion vector from said video data in a motion estimator device of the video data processing device, said video data representing the object in motion on the display device;

changing at least one of the phase, amplitude, spatial resolution and temporal resolution of said dithering function in accordance with said at least one motion vector representing the movement of a moving object on a picture when applying the dithering function to said video data in the dithering device of the video data processing device to suppress ~~[[a]] the~~ dithering pattern caused by the movement of the object on the display device from appearing to a viewer observing the moving object on the picture; and

outputting the dithered video data from the video data processing device to the display device to suppress ~~[[a]] the~~ dithering pattern from appearing to a viewer observing the moving object on the picture on the display device.

2. (Previously Presented) The method according to claim 1, wherein said dithering function includes two spatial dimensions and one temporal dimension.
3. (Previously Presented) The method according to claim 1, wherein said dithering function includes the application of a plurality of masks.
4. (Previously Presented) The method according to claim 1, wherein said applying

of said dithering function is based on single luminous elements of said display device.

5. (Previously Presented) The method according to claim 1, wherein said dithering function is a 1-, 2-, 3- or 4- bit dithering function.

6. (Previously Presented) The method according to claim 1, wherein said at least one motion vector is defined for each of a pixel or cell individually.

7 - 16. (Canceled)

17. (Currently Amended) A device for processing video data for display on a display device having a plurality of luminous elements to suppress a dithering pattern caused by the movement of an object on the display device from appearing to a viewer observing ~~[[a]] the moving object on the display device~~, the moving object represented by said video data, wherein said video data processing device comprises:

a dithering device for applying a changeable dithering function to at least a part of said video data to refine a grey scale portrayal of video pictures of said video data;

a motion estimator connected to said dithering device for computing and providing at least one motion vector from said video data, said video data representing the object in motion on the display device,

wherein at least one of a phase, an amplitude, a spatial resolution and a temporal resolution of said dithering function is changed in accordance with said at least one motion vector in the dithering device representing the movement of a moving object on a picture, and

wherein said device for processing video data comprises means for outputting said dithered video data to the display device to suppress ~~[[a]] the dithering pattern~~ caused by the movement of the object on the display device from appearing to a viewer observing the moving object on the display device.

18. (Previously Presented) The device according to Claim 17, wherein said dithering function used by said dithering means device includes two spatial dimensions and a temporal dimension.
19. (Previously Presented) The device according to Claim 17, wherein said dithering function of said dithering device is based on a plurality of masks.
20. (Previously Presented) The device according to Claim 17, wherein said dithering function of said dithering device is based on a single luminous element, said single luminous element called a cell of the display device.
21. (Previously Presented) The device according to Claim 17, wherein said dithering device is able to process a 1-, 2-, 3- or 4-bit dithering function.
22. (Previously Presented) The device according to Claim 17, wherein said at least one motion vector is definable for each pixel of the display device individually by said motion estimation device.
23. (Previously Presented) The device according to Claim 17, wherein said at least one motion vector includes two spatial dimensions.
24. (Previously Presented) The device according to Claim 17, further comprising gamma function means connected to said dithering device, so that the input signals of said dithering device are pre-corrected by a gamma function.
25. (Previously Presented) The device according to Claim 17, further comprising controlling means connected to said dithering device for controlling said dithering device temporally in dependence of frames of said video data.